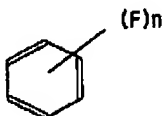


In the Claims:Claim 1 (currently amended).

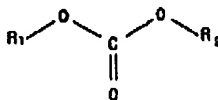
A non-aqueous electrolyte composition for lithium secondary cells, comprising a lithium salt dissolved in an organic solvent system composed of a fluorobenzene component (FB) and a carbonic acid ester component (CE), wherein the solvent components are present in a ~~volume percent ratio range~~ from 50 FB :50 CE to ~~41.1 12.5~~ 12.5 FB: ~~88.9 87.5~~ 87.5 CE, based on volume percent, said fluorobenzene component being one or more compounds represented by the following general formula 1:

[ Formula 1 ]



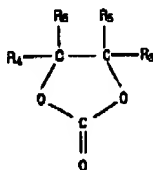
wherein F represents a fluorine element and n is an integer of 1-6; and said carbonic acid ester component ~~being one or more compounds~~ having compounds represented by the following general formulas 2 and 3:

[ Formula 2 ]



wherein R<sub>1</sub> and R<sub>2</sub>, which may be the same or different, each represents an alkyl radical containing 1-4 carbon atoms and

[ Formula 3 ]



wherein R<sub>3</sub>, R<sub>4</sub>, R<sub>5</sub> and R<sub>6</sub>, which may be the same or different, each represents a hydrogen atom or

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an alkyl radical containing 1-4 carbon atoms.

Claim 2 (previously amended).

The non-aqueous electrolyte composition as set forth in claim 1, wherein said fluorobenzene component of the general formula 1 is a mixture of fluorobenzene and difluorobenzene.

Claim 3 (previously amended).

The non-aqueous electrolyte composition as set forth in claim 1, wherein said lithium salt is selected from the group consisting of  $\text{LiPF}_6$ ,  $\text{LiClO}_4$ ,  $\text{LiAsF}_6$ ,  $\text{LiBF}_4$ ,  $\text{LiCF}_3\text{SO}_3$  and mixtures thereof and used at a concentration of 0.7-2.0 M.

Claim 4 (previously amended).

The non-aqueous electrolyte composition as set forth in claim 1, wherein said carbonic acid ester component comprises a compound selected from the group consisting of ethylene carbonate, propylene carbonate, butylene carbonate, dimethyl carbonate, diethyl carbonate, dipropyl carbonate, ethylmethyl carbonate, methylpropyl carbonate, and ethylpropyl carbonate.

Claim 5 (currently amended).

5. The non-aqueous electrolyte composition as set forth in claim 1, wherein said organic solvent system ranges, in the volume ratio of the solvent component of the general formula 1 to the solvent component of the general formula 2, from 2/1 to ~~1/8~~1/4.

Claim 6 (currently cancelled).

Claim 7 (currently cancelled).

Claim 8 (currently cancelled).

Claim 9 (currently cancelled).